

**DECLARATION****INVENTORSHIP IDENTIFICATION**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**CAPACITOR HAVING AN ELECTRODE FORMED FROM A TRANSITION METAL OR A  
CONDUCTIVE METAL-OXIDE, AND METHOD OF FORMING SAME**

**TITLE OF INVENTION****SPECIFICATION IDENTIFICATION**

the specification of which:

- (a) ☒ is attached hereto.
- (b) ☐ was filed on \_\_\_\_\_, as ☐ Serial No. \_\_\_\_\_ and was amended on \_ (*if applicable*).
- (c) ☐ was described and claimed in PCT International Application No. \_ filed on \_\_\_\_\_  
☐ and was amended on \_\_\_\_\_ (*if applicable*).

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56.

**PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

(Prior Foreign/Pct Application(S) Filed Within 12 Months  
(6 Months For Design) Prior To This Application)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate(s) or 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below and have also identified below any foreign application(s) for patent or inventor's certificate(s) or any PCT international application(s) having a filing date before that of the application(s) of which priority is claimed.

Application Number	Country or PCT	Date Of Filing (Day, Month, Year)	Priority not Claimed	Certified Copy Attached?
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			<input type="checkbox"/>	<input type="checkbox"/> YES NO <input type="checkbox"/>
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**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e)**

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
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**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120**

(All Foreign Application(S), If Any, Filed More Than 12 Months  
(6 Months For Design) Prior To This U.S. Application)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or 365(c) PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application.

U.S Parent Application No.	PCT Parent Application No.	Date Of Filing (Day, Month, Year)	Parent Patent No. (If applicable)

**DECLARATION**

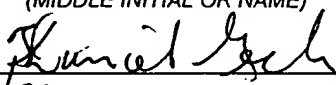
I hereby declare that my presentation of this paper constitutes a certification under 37 C.F.R § 10.18, which provides, in part, that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application and any patent issuing therefrom.

F03210-60332230

## SIGNATURE(S)

## Inventor(s)

<u>I.F.</u>	<u>Daniel</u>	<u>Gealy</u>
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)


Inventor's signature 

Date 3/30/99 Country of Citizenship U.S.A.

Residence Kuna, ID 83634

Post Office Address 4300 Junayo Lane, Kuna, ID 83634

<u>Thomas</u>	<u>M.</u>	<u>Graettinger</u>
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)

Inventor's signature 

Date 4/1/99 Country of Citizenship U.S.A.

Residence Boise, ID 83706

Post Office Address: 1800 Leadville Avenue, Boise, ID 83706

- ☐ **Signature** by administrator(trix), or legal representative for deceased or incapacitated inventor. *Number of pages added* \_\_\_\_\_.
- ☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* \_\_\_\_\_.
- ☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47) *Number of pages added* \_\_\_\_\_.
- ☐ Authorization of attorney(s) to accept and follow instructions from representative.

☒ This declaration ends with this page.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
37 C.F.R. § 3.73(b) Statement

Applicants: Gealy et al.

Serial No.:

Filed:

Title: CAPACITOR HAVING AN ELECTRODE FORMED FROM A TRANSITION METAL OR A CONDUCTIVE METAL-OXIDE, AND METHOD OF FORMING SAME

To the best of my knowledge and belief, Micron Technology, Inc. (a Delaware Corporation) is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the United States Patent and Trademark Office on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s) of the patent application identified above to the current assignee as shown below:

1. From \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Copies of assignments or other documents in the chain of title are attached.

Power Of Attorney

I hereby revoke all previous powers of attorney, if any, and appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Carol I. Bordas, Reg. No. 37,284  
George D. Dickos, Reg. No. 30,048  
Thomas J. Edgington, Reg. No. 34,324  
Christine R. Ethridge, Reg. No. 30,557  
Jason D. Haislmaier, Reg. No. 40,300  
Richard W. James, Reg. No. P-43,690  
Mark G. Knedeisen, Reg. No. 42,747  
William E. Kuss, Reg. No. 41,919

James R. Kyper, Reg. No. 27,346  
Mark R. Leslie, Reg. No. 36,360  
Franklin B. Molin, Reg. No. 37,397  
Jonathan C. Parks, Reg. No. 40,120  
Darren E. Wolf, Reg. No. 36,310  
Robert D. Yeager, Reg. No. 25,047  
Michael L. Lynch, Reg. No. 30,871  
Lia M. Pappas, Reg. No. 34,095

Please Direct All Correspondence to: Mark G. Knedeisen, Esquire  
Kirkpatrick & Lockhart, LLP  
1500 Oliver Building  
Pittsburgh, PA 15222-2312

Declaration

I hereby declare that I am empowered to sign this statement on behalf of the assignee and that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true.

Date 4-1-99

Signature 

Name Michael L. Lynch

Title Chief Patent Counsel



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 24, 1999

PTAS

KIRKPATRICK & LOCKHART LLP  
MARK G. KNEDEISEN  
1500 OLIVER BUILDING  
PITTSBURGH, PA 15222



\*101016866A\*



**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/06/1999

REEL/FRAME: 9889/0322  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

GEALY, F. DANIEL

DOC DATE: 03/30/1999

**ASSIGNOR:**

GRAETTINGER, THOMAS M.

DOC DATE: 04/01/1999

**ASSIGNEE:**

MICRON TECHNOLOGY, INC.  
8000 S. FEDERAL WAY  
BOISE, IDAHO 83706-9632

SERIAL NUMBER: 09286807  
PATENT NUMBER:

FILING DATE: 04/06/1999  
ISSUE DATE:

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED  
JUL 08 1999  
TERRI WATSON

**RECEIVED**

**JUL 08 1999**

**KIRKPATRICK & LOCKHART LLP**

04-20-1999

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT



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4/6/99

RECORDATION FORM COVER SHEET  
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

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☐ Resubmission (Non-Recordation)  
Document ID#   
☐ Correction of PTO Error  
Reel #  Frame #   
☐ Corrective Document  
Reel #  Frame #

Conveyance Type

☒ Assignment ☐ Security Agreement  
☐ License ☐ Change of Name  
☐ Merger ☐ Other   
**U.S. Government**  
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Name (line 2)   
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Name (line 1)   
Name (line 2)

Execution Date  
Month Day Year  
3 30 99

Execution Date  
Month Day Year  
4 1 99

Receiving Party

☐ Mark if additional names of receiving parties attached  
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☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.  
Name   
Address (line 1)   
Address (line 2)   
Address (line 3)   
Address (line 4)

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**Correspondent Name and Address**

Area Code and Telephone Number **(412) 355-6342**

Name **Mark G. Knedeisen**

Address (line 1) **Kirkpatrick & Lockhart LLP**

Address (line 2) **1500 Oliver Building**

Address (line 3) **Pittsburgh, PA 15222**

Address (line 4)

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

#

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**


If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
**3 30 99**

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT  PCT  PCT   
PCT  PCT  PCT

**Number of Properties**

Enter the total number of properties involved.

#

**1**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00**

Method of Payment:  
Deposit Account

Enclosed ☒ Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# **11-1110**

Authorization to charge additional fees:

Yes ☒ No ☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

**Mark G. Knedeisen**

Name of Person Signing

*Mark Knedeisen*  
Signature

**Apr. 16, 1999**  
Date

**ASSIGNMENT OF INVENTION**

For: ☒ U.S. and/or ☒ Foreign Rights  
For: ☒ U.S. Application or ☐ U.S. Provisional Application  
For: ☒ U.S. Patent  
For: ☐ PCT Application  
By: ☒ Inventor(s) or ☐ Present Owner

In consideration of the payment by ASSIGNEE(S) to ASSIGNOR(S) of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR(S)**

<b>F. Daniel Gealy</b>	<b>4300 Junayo Lane, Kuna, ID 83614</b>	<b>U.S.A.</b>
name of Assignor	Address	Nationality

<b>Thomas M. Graettinger</b>	<b>1800 Leadville Avenue, Boise, ID 83706</b>	<b>U.S.A.</b>
name of Assignor	Address	Nationality

name of Assignor	Address	Nationality
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name of Assignor	Address	Nationality
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name of Assignor	Address	Nationality
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name of Assignor	Address	Nationality
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Recorded on \_\_\_\_\_ Reel \_\_\_\_\_ Frame \_\_\_\_\_

hereby sells, assigns and transfers to

**ASSIGNEE(S):**

<b>Micron Technology, Inc.</b>	<b>8000 S. Federal Way, Boise, ID 83706-9632</b>	<b>a Delaware corporation</b>
(name of ASSIGNEE)	Address	Nationality

and the successors, assigns and legal representatives of the ASSIGNEE(S)



- ☒ the entire right, title and interest for the United States and its territorial possessions
- ☐ an undivided \_\_\_\_\_ percent ( \_\_\_\_\_ %) interest for the United States and its territorial possessions
- ☒ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

**CAPACITOR HAVING AN ELECTRODE FORMED FROM A TRANSITION METAL OR A CONDUCTIVE METAL-OXIDE, AND METHOD OF FORMING SAME**

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on \_\_\_\_\_
- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention
- ☐ Express mail label no.: \_\_\_\_\_ Mailed: \_\_\_\_\_
- ☐ To comply with 37 CFR 3.21 for recordal of this assignment, ASSIGNOR(S) signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☐ U.S. application no.: \_\_\_\_\_ filed on \_\_\_\_\_
- (e) ☐ International application no. \_\_\_\_\_ filed on \_\_\_\_\_ and amended on \_\_\_\_\_
- (f) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_
- ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE(S) will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE(S) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, ASSIGNOR(S) have hereunto set hand and seal this:

**WARNING:** The date of signing must be the same as the date of execution of the declaration, if item (a) was checked above.

F. Daniel Gealy

Name of Assignor or  
Name & Title of Person entitled to sign on  
behalf of AssignorSignature of Assignor or  
Person entitled to sign on behalf of Assignor3/30/99  
Date

Place of signing of assignment

City/County :  
State :  
Country :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ personally appeared \_\_\_\_\_, to  
me known to be the person(s) who ☐ is ☐ are described in and who executed the foregoing assignment  
instrument and acknowledged its contents of their own free will for the purpose therein expressed.

Notary Public or Consular Officer of the United States of America

NOTE: Notarization of this document is only prima facie evidence of execution, 35 USC 261.

WARNING: The date of signing must be the same as the date of execution of the declaration, if item (a) was checked above.

Thomas M. Graettinger

Name of Assignor or  
Name & Title of Person entitled to sign on  
behalf of AssignorSignature of Assignor or  
Person entitled to sign on behalf of Assignor4/1/99  
Date

Place of signing of assignment

City/County :  
State :  
Country :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ personally appeared \_\_\_\_\_, to  
me known to be the person(s) who ☐ is ☐ are described in and who executed the foregoing assignment  
instrument and acknowledged its contents of their own free will for the purpose therein expressed.

Notary Public or Consular Officer of the United States of America

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WARNING: The date of signing must be the same as the date of execution of the declaration, if item (a) was checked above.

Name of Assignor or  
Name & Title of Person entitled to sign on  
behalf of AssignorSignature of Assignor or  
Person entitled to sign on behalf of Assignor

Date

Place of signing of assignment

City/County :  
State :  
Country :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ personally appeared \_\_\_\_\_, to  
me known to be the person(s) who ☐ is ☐ are described in and who executed the foregoing assignment  
instrument and acknowledged its contents of their own free will for the purpose therein expressed.

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